



Steven M. Ruben  
Appl. No. 10/662,429



ANN KIM  
MOL. BIO.

Department MOL. BIO.  
Subject 25196 - 4/8/96  
Name ANN KIM # 12  
Address \_\_\_\_\_  
National Brand  
**Computation Notebook**  
11 3/4" x 9 1/4", 4 x 4 Quad., 75 Sheets 43-648  
  
0 73333 43648 8  
 **AVERY DENNISON**  
Office Products  
Chicopee, MA 01022

BEST AVAILABLE COPY

Ruben EXHIBIT #95

2

Department MOL. BIO.  
Subject 2/5/96 - 4/8/96  
Name ANN KIM #12  
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Ruben EXHIBIT 2095  
Ruben v. Wiley et al.  
Interference No. 105,077  
RX 2095

5

2/6/96

DNA	4	Inoculate 37°C O/N
10x#2	5	
H <sub>2</sub> O	40	
EcoRI	0.5	
XhoI	0.5	
	50 µl	

GET Paperwork ready for

HTPAN08504 + PQE6  
 HSKBN09 + PQE7

HMSAF22 + GPPA2  
 HMSAF22 3'Δ + GPPA2

To Submit to Protein Expression.

Make Primers to Clone into pCDNA  
 3' HA Tag

HE2PM21 - Soluble VEGF

HMSAF22

HT4SB02 } Possible Secreted Protein

HSKBN09 }

Make Primers to Clone into PQE6

HTPAN08504 - at New ATG Start

1st for Cloning Cre facility

Inoculate for max pups

HTPAN08 + PQE6 } TB + Amp Kan

HSKBN09 + PQE7 }

HMSAF22 + GPPA2 }

HMSAF22 3'Δ + GPPA2 } TB + Amp

2/7/96

Spin through G-25 Column - 1.3K.  
Collect fluids through  
Count tube

	SAH	POS	CH	CPM	2SIGZ	TIME	EL TIME	AVG H#	RCHZ
NSong	HSLEP86	1	200	1 1258393.25	0.46	0.15	1.58	61.0 $62.9 \times 10^6$	0.00
NSong	HSMBV83	2	201	1 1640159.88	0.40	0.15	3.38	112.0 $82 \times 10^6$	0.00
NSong	HCUER32.3	202	1	1542533.25	0.42	0.15	5.16	87.0 $77.15 \times 10^6$	0.00

Specific Activity cpm/ug

HSLEP86  $1.3 \times 10^9$  cpm/ug

HSMBV83  $1.4 \times 10^9$  cpm/ug

HCUER32  $1.5 \times 10^9$  cpm/ug

Give Probes to Mark Porter on 2nd floor

Diagnose Main Preps

Spin Cultures 5K 15min  
Make Glycerol Stock of Cultures  
Store  $-80^\circ\text{C}$

Pour off Supernatant

Resuspend pellet 10ml Buffer P1

Let sit at room Temp 10min

Add 10ml of Buffer P2

Add 10ml of ice cold Buffer P3

Incubate on ice 30min

Spin 8K 30min at  $4^\circ\text{C}$

Equilibrate a tip 500 with 10ml

Buffer QBT

Apply supernatant to a equilibrated

Column through a Kim wipe

Allow Supernatant to completely

flow through Column Bed.



2/7/96

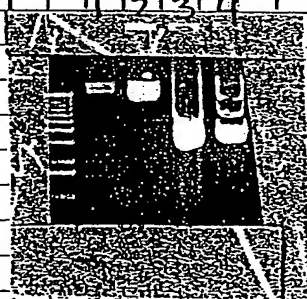
Wash column 2x with 30 ml  
Buffer QC  
Elute in 15 ml Buffer QC  
Add 0.7 volumes (10.50 ml) of isopropanol  
Mix well  
Spin 8K 30 min  
Pour off supernatant  
Wash pellet 15 ml 70% ethanol  
Spin 8K 15 min  
Pour off supernatant  
Allow pellet to air dry at  
Room temp O/N

2/8/96

Diagen MaxIS Continued  
Resuspend pellets in 200  $\mu$ l  
TE  
Transfer to fresh tube  
Read OD 260/280

Sample ID	abs		260.0 nm		280.0 nm
	260.0 nm	280.0 nm	260.0 nm	280.0 nm	
1) HMSAF22	0.0077	0.0040	2.4654	0.4055	0.1 $\mu$ g/ $\mu$ l
2) HMSAF22	0.0563	0.0360	1.5652	0.6389	0.56 $\mu$ g/ $\mu$ l
3) HSEBNO9	0.2331	0.1531	1.5226	0.6568	2.33 $\mu$ g/ $\mu$ l
4) HTPANO8	0.0790	0.0507	1.5575	0.6421	0.79 $\mu$ g/ $\mu$ l

Run gel on gel with 1 kb ladder



1) HMSAF22 + GPPA2  
2) HMSAF22 3' + GPPA2  
3) HSEBNO9 + PDE2  
4) HTPANO8 + PDE6

2/8/96

## Set-up Digestions

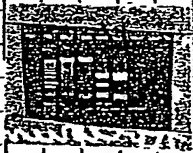
	DNA	10X	H <sub>2</sub> O	Enzs
1 HMSAF22 + GPPAZ	10	2	7.6	0.2 Bg II + Asp71
2 HMSAF22 3Δ + GPPAZ	1.8	2	15.8	0.2 Bg II + Asp71
3 HSKONOR + PQEF	0.4	2	17.2	0.2 Sph + Hinf
4 HTPANOSH + PQEF	1.3	2	16.3	0.2 Sph + Hinf

Incubate 37°C 4 hrs

Run 10 μl on gel w/ 1 kb ladder

#2 + #4 look good + correct

#3? more than one digest?

Incubate 37°C O/W.  
Run again tomorrowSet up reactions for Pfu using  
PCR Optimization Buffers  
from Stratagene

10 mM Tris-HCl	MgCl <sub>2</sub>	25 mM KCl	75 mM KCl
pH 8.3	1.5 mM	Opti-Prime™ 1x buffer #1	Opti-Prime™ 1x buffer #2
pH 8.3	3.5 mM	Opti-Prime™ 1x buffer #3	Opti-Prime™ 1x buffer #4
pH 8.8	1.5 mM	Opti-Prime™ 1x buffer #5	Opti-Prime™ 1x buffer #6
pH 8.8	3.5 mM	Opti-Prime™ 1x buffer #7	Opti-Prime™ 1x buffer #8
pH 9.2	1.5 mM	Opti-Prime™ 1x buffer #9	Opti-Prime™ 1x buffer #10
pH 9.2	3.5 mM	Opti-Prime™ 1x buffer #11	Opti-Prime™ 1x buffer #12

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2/8/96

Use Different Sized DNA inserts

1	HIPB411515	5' Bam	3' Xba
2	HIPAN07504	5' Nco	3' Xho
3	HE8CT26	5' Bam	3' Asp
4	HT3AB35	5' Bam	3' Hinf

Use primers at - 20 pmol / reaction  
 or 2  $\mu$ g / reaction  
 DNA - at 100 ng /  $\mu$ l

Set up 3 Reaction Tubes per DNA sample

Add 5  $\mu$ l of 10x Buffers 1-12add 5  $\mu$ l of Pfu Buffer to #13

- Make Cocktail in the following Order

\* Make sure all reagents + Tubes are on ice \*

	1	2	3	4
H <sub>2</sub> O	41.2	270.6	231.2	469.6
50x Master Mix	12.5	12.5	12.5	12.5
10x dNTP	60	60	60	60
5' Primer	67.4	67.4	92.6	10
3' Primer	5.6	147	161.2	5.4
DNA	1	1	1	1
Pfu	6.5	6.5	6.5	6.5
	56.5	56.5	56.5	56.5

45  $\mu$ l / Reaction Tubes

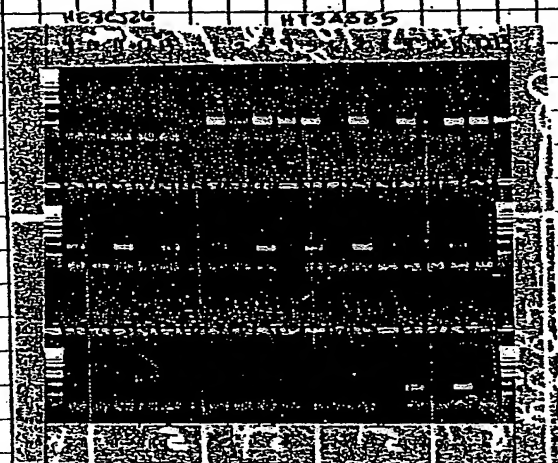
Aliquot into tubes just before ready  
 to start PCR

2/8/96

## PCR PROG #1.

95°C 5min  
 95°C 1min  
 65.5°C 1min  
 72°C 1min + 5 sec.  
 72°C 7min  
 4°C Hold.

Run 10 µl on gel w/ 11 kb ladder.



looks like HTPB41S15  
 was too large  
 to amplify -  
 Need longer  
 extension time

For the most part  
 it looks like the  
 longer fragments  
 like odd # Buffers  
 #1, 3, 5, 7.

TRY HTPB41S15 Again  
 using a longer  
 extension time?

2/9/96

Set up Reactions for Core  
 Cloning

Total of 8 samples -

6 mine

2 from John Green



2/9/96

			5' Primer	3' Primer
A	HUSAQ05	10 ng/ul	4624	4623
B	HNEDW90	10 ng/ul	4626	4625
C	HE8C326	250 ng/ul	4602	14603
D	H.T4SB02	250 ng/ul	4636	4637
E	H.MSAF22	250 ng/ul	4634	4638
F	H.E2PM211	250 ng/ul	4633	4629
G	H.SKBN09	250 ng/ul	4635	4630
H	H.TPAND08	250 ng/ul	4632	14388

Set-up reactions using Buffers  
# 1, 3, 5, 7, 9  
Total of 200 ul of each Reaction

\*OK\* ICE \*

	A	B	C	D	E	F	G	H
H <sub>2</sub> O	75.3	75.2	67.2	77.9	77.8	77.7	77.7	75.7
10x M.M.	20	20	20	20	20	20	20	20
10x dNTP	100	100	100	100	100	100	100	100
5' Primer	6	7	37	17	12	14	19	13
3' Primer	6	6	65	14	2	9.9	1.1	20.0
DNA	10	10	1	1	1	1	1	1
PFU (2.5%)	5	5	5	5	5	5	5	5
	900 ul	900 ul	900 ul	900 ul	900 ul	900 ul	900 ul	900 ul

Aliquot 90 ul into each tube

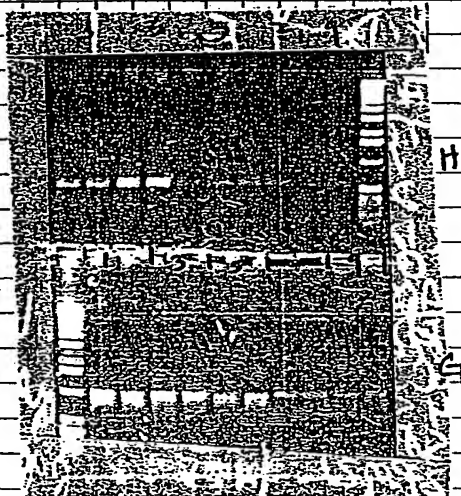
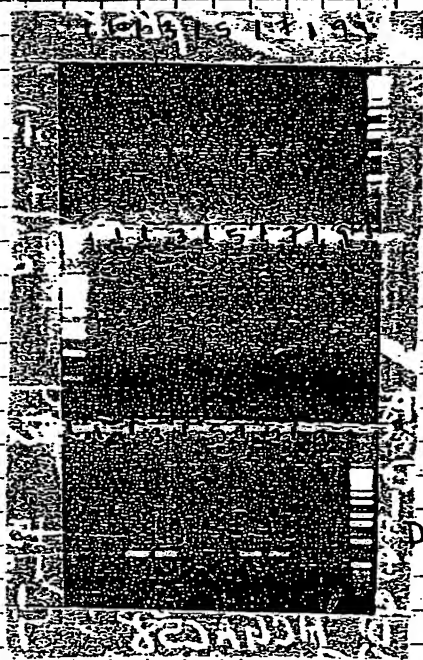
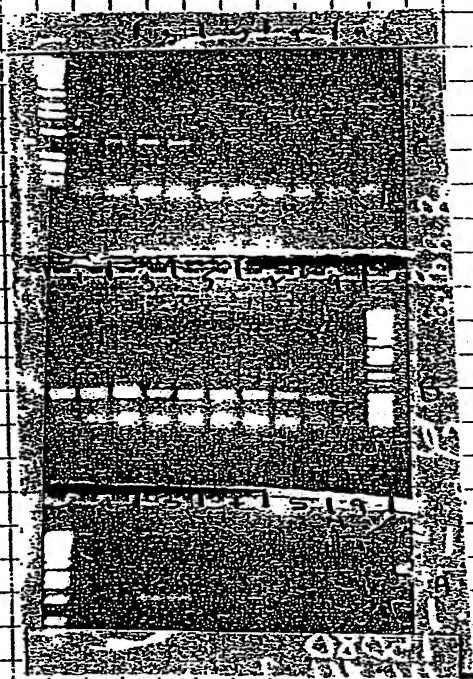
PCR:

95°C 5 min  
95°C 1 min  
55°C 1 min  
72°C 2 min  
72°C 7.5 min  
4°C Hold

5 4629 0.3507 0.1821  
6 4630 0.2808 0.1819  
7 4631 0.2172 0.1518  
8 4632 0.2431 0.1517  
9 4633 0.2173 0.1450  
10 4634 0.2653 0.1770  
11 4635 0.1585 0.0989  
12 4636 0.1778 0.1265  
  
1.8258 0.5477 2.51  
1.5434 0.6479 1.85  
1.4310 0.6988 1.43  
1.6032 0.6238 1.46  
1.4989 0.6672 1.43  
1.4992 0.6670 1.75  
1.6128 0.6201 1.05  
1.4057 0.7114 1.17

2/9/96

Run 5ul on gel w/ 1 Kbladder



Combine Rixms that  
Worked into 1-2 tubes.

Ppt w/ equal Volumes  
13% PEG ~~DETA~~ 1.4M NaCl  
Vortex well to mix  
Spin 15 min  
Pour off Supernatant

Store -20°C till  
Monday

14

2/9/96

ROXANNE DUAN

Brought up samples for Cloning

Digest pBSK

DNA	3.7
10x Bam	5
H <sub>2</sub> O	40.3
BamHI	1
	50

Incubate 37°C

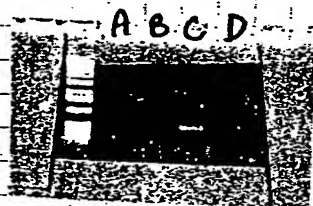
2/12/96

Set-up Reactions for Cloning

0.8kb	A)	HSGSA61	15091	15077
0.8kb	B)	HSGSA61	15091	15090
0.6kb	C)	HCGAC58	15092	15089
0.6kb	D)	HCGAC58	15092	15080
0.5kb	E)	HAVCC34	4639	4641

	A	B	C	D	E
di H <sub>2</sub> O	734.8	734.8	734.8	734.8	734.8
50XMM	20	20	20	20	20
10x dNTP	100	100	100	100	100
5' Primer	20	20	20	20	20
3' Primer	20	20	20	20	20
DNA	0.2	0.2	0.2	0.2	0.2
PEU	5	5	5	5	5
	900	900	900	900	900

2/12/96



### Set-up Digests

A	HSGSA61	5091 + 15077	Bam → PBL
B	HSGSA61	5091 + 15090	Bam → PBL
C	HCGAC58	15092 + 15089	Bam → PBL
D	HCGAC58	15092 + 15080	Bam / Xho → pcDNA-3'HA

	A	B	C	D
DNA	20	20	20	20
10X	5	5	5	5
H <sub>2</sub> O	24	24	24	23
Enz I	1	1	1	1
Enz 2	—	—	—	1
Incubate	37°C	37°C	37°C	50°C

Spin Samples from 2/9/96

15 min  
 Pour off Supernatant  
 Wash pellet 1000 ul 70% ethanol  
 Spin 5 min  
 Pour off Supernatant - let air dry 15 min  
 Resuspend pellet in 50 ul TE

300 bp Digest

Run gel on gel w/ 1 kb ladder



1	HUSA005	1.12
2	HWFDW90	0.48
3	HEGCT26	0.7
4	HT4SPDZ	0.65
5	HMSAF22	0.92
6	HE2PM21	1.1 Kb
7	HSLBN09	1 Kb
8	HTPON26	0.57

SP - WP  
 Digest  
 pgs 20



(pg 16)

2/12/96

A	HUSAQ05	Bgl II / xho I	#2
B	HNFDW70	Bam HI / xho I	Bam
C	HE8J26	Bam I / Asp.	B
D	HT4S602	Bam / xho	Bam
*E	HMSAF22	Bcl / xho	M
F	HEZPM21	Bam / xho	Bam
*G	HSKBND9	Bcl / xho	M
*H	HTPAN08	Bsp HI / HLL	B

	A	B	C	D	E	F	G	H
DNA	20	10	20	20	30	20	20	20
10X	5	5	5	5	5	5	5	5
H <sub>2</sub> O	23	33	23	23	13	23	23	23
Enz 1	1	1	1	1	1	1	1	1
Enz 2	1	1	1	1	1	1	1	1

\* For Bcl I Digests - Digest first in xho I at 37°C - then Add Bcl and incubate 50°C

\* For Bsp HI - Need to use usciomer Rea. I - No Bsp HI around

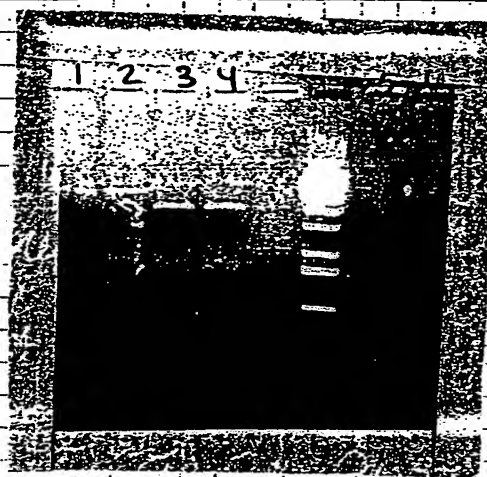
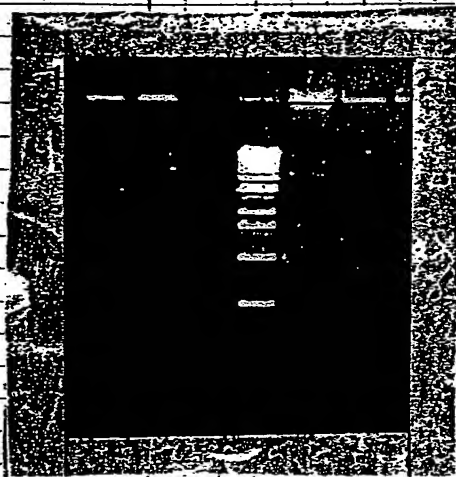
incubate at 37°C. 6 hrs

Aliquoted HIPAN08 SOL 4/3/12

for Patent:  
25 Tubes w/ 100ng DNT at 10ng/ul  
Give to Steve Ruben

2/13/96

Run Digests on LMP Gels  
 80V 1 1/2 hrs.  
 Cut out Gel Slice  
 Take Pictures



1 HCGAC58	Bam/Xho	pCDNA 3' HA
2 HCGAC58	Bam	pDIO
3 HSGSA61	Bam	pDIO
4 HSGSA61	Bam	pBSK
5 HNF DW90	Bam/Xho	pCDNA 3' HA
6 HUSAQ05	Bcl I/Xho	pCDNA 3' HA
7 HEZPM21	Bam/Kho	pCDNA 3' HA
8 HESBT26	Bam/Ksp	pA2
9 HMSAFC2	Bcl I/Xho	pCDNA 3' HA
10 HSCBNO9	Bcl I/Xho	pCDNA 3' HA
11 HTY5602	Bam/Xho	pCDNA 3' HA
12 HTPAN08	BspH I/HAI	pQEG

Gene Clean fragment

## Set up ligations

2/13/90

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1 HCGAC58 Bam/Kho	10															
2 HCGAC58 Bam		10														
3 HSGSA61 Bam			10													
5 HNFDA90 Bam/Kho				10												
6 HUSAQ05 Bsp/Kho					10											
7 HEZFM2 Bam/Kho						10										
8 HECJ26 Bam/Asp							10									
9 HMSAF22 Bsp/Kho								10								
10 HSKBN09 Bcl/Kho									10							
11 HTUS802 Bam/Kho										10						
12 HTPAN08 Bsp/HII											10					
PCDNA 3' HA Bam/Kho	0.5			0.5	0.5	0.5		0.5	0.5	0.5		0.5				
PD10 Bam		0.5	0.5										0.5			
PA2 Bam/ASP							0.5							0.5		
PQE6 Nco/HII											0.5				0.5	
10X T4 Buffer	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
T4 Ligase	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
H <sub>2</sub> O	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Total	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

incubate 16°C overnight

2/13/96

Inoculate LBT Amp with:

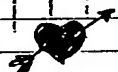
HTPANOS04

GPPA2<sup>4</sup>

pCDNA 3'HA

Incubate overnight 37°C w/aeration  
overnight

2/14/96



VALENTINE'S DAY

Diagen Maxi Prep

HTPANOS04

GPPA2

PCDNA 3'HA

Spin 5K 15 min

Pour off Supernatant

Resuspend pellet 10 ml P1 Buffer

Add 10 ml P2 Buffer

Add 10 ml P3 Buffer

Incubate on ice 30 min

Spin 8K 30 min

Transfer Supernatant through  
Ken tube to equilibrated  
tip 500

Allow to flow through

Wash tip 3x with 30 ml

QC Buffer

Elute with 15 ml Buffer QF

Collect - add 0.7 volumes (10.5 ml)

of isopropanol

Spin 8K 30 min

Pour off Supernatant

Wash pellet 15 ml 70% Ethanol

Spin 8K 15 min



25

2/14/96

Pour off Supernatant  
 Allow pellet to air dry  
 Resuspend pellet in 200  $\mu$ l TE  
 Read OD<sub>260</sub>/280

Sample ID	abs 260.0 nm	abs 280.0 nm	260.0 nm 280.0 nm	280.0 nm 260.0 nm	
1	<del>0.0453</del>	<del>0.0388</del>	<del>1.2477</del>	<del>0.8015</del>	0.46 $\mu$ g/ $\mu$ l
2 HTPANOSY	0.0457	0.0366	1.2477	0.8015	1.54 $\mu$ g/ $\mu$ l
3 GPPAL	0.1593	0.1044	1.5253	0.6556	
4 pCDNA 3' HA	0.0458	0.0320	1.4240	0.7022	0.46 $\mu$ g/ $\mu$ l

Set-up Digestions of the pC4. Prim  
 2/13.

PC4 - 0.96  $\mu$ g/ $\mu$ l.

pCDNA 3'

	BamHI	XbaI	Asp718	BamHI/XbaI	Bam/Xba
DNA	5.21	5.21	5.21	5.21	10.9
10X Buffer	5 Bam	5 #2	5 8	5 Bam	5
H <sub>2</sub> O	37.79	37.79	37.79	36.79	30.1
Enzyme 1	1	1	1	1	1
Enzyme 2	—	—	—	1	1
	50	50	50	50	50

incubate 37°C O/N

Transform ligations into Chemically  
 Competent Cells.  
 for pCDNA + PA2 - DH5 $\alpha$   
 pOE + PD10 - M15 up 5

2/14/96

Thaw Cells on ice  
 aliquot 100ul into prechilled  
 tubes  
 Add 10ul of ligation mix  
 incubate on ice 7 hrs  
 Heat 42°C 45 sec  
 Chill on ice  
 Add 400ul LB  
 incubate 37°C 1 hr  
 plate onto LB plates  
 pCDNA + PAZ - LB + Amp  
 pAE + PD10 - LB + Amp / Kan  
 incubate 37°C overnight  
 use (+) control PAZ idig  
 & pAE 100 long  
 use (-) control of cells only.

2/15/96

Pick Colonies into LB + Amp  
 or LB + Amp / Kan in 96 well Dish  
 incubate 37°C w/ aeration 4 hrs  
 Set up PCR

	A	B	C	D	E	F	G	H	I	J	K
10xPCR	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
10xDNTP	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
H <sub>2</sub> O	21.4	22.3	22.3	20.4	21.4	20.3	21.4	19.4	20.4	21.4	28.2
Taq	0.2	10.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Cell	2	2	2	2	2	2	2	2	2	2	2
Primer #1	T71	PD10	PD10	T71	T71	PAZ01	T71	T71	T71	T71	PD10
Primer #2	1	1	1	2	1	3	1	3	2	1	01

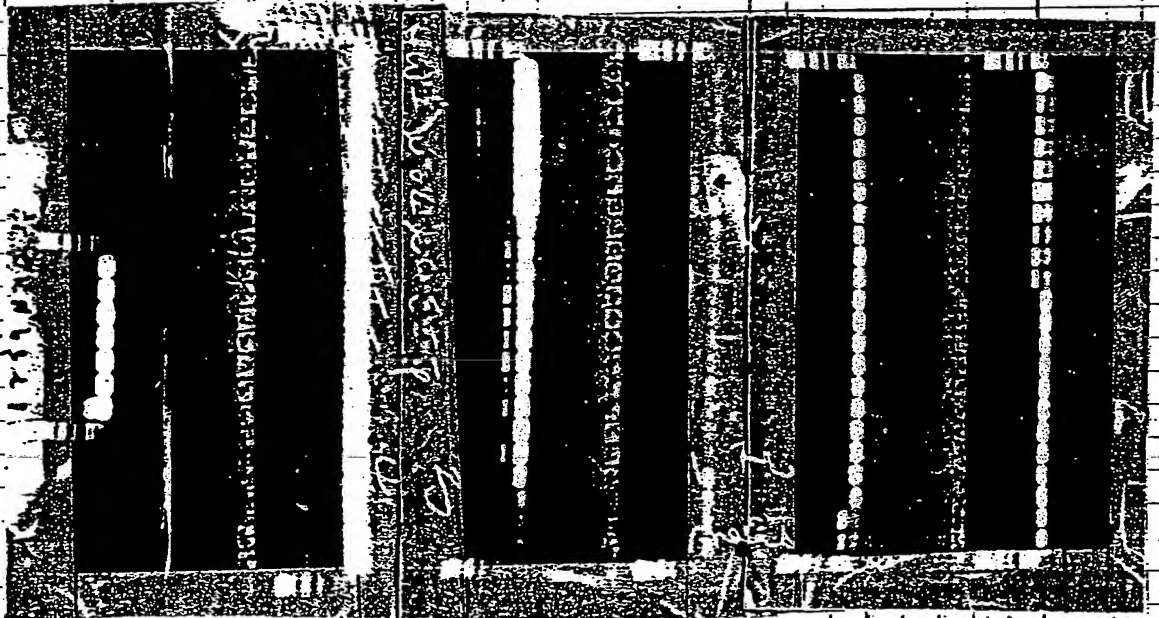
2/15/96

## Primers

A	HCGAG58	pCDNA	#15000	10pmol/ $\mu$ l	+ T7
B	HCGAG58	PD10	#15000	10pmol/ $\mu$ l	+ PGE9/10
C	HSGSAG61	pD10	#14810	10pmol/ $\mu$ l	+ PGE9/10
D	HNF DW90	pCDNA	#11693	7.7pmol/ $\mu$ l	+ T7
E	HUSAQ05	pCDNA	#14118	14.4pmol/ $\mu$ l	+ T7
F	HE2PM21	pCDNA	FPO2	3.2pmol/ $\mu$ l	+ T7
G	HESCS26	PA2	FPO4 #H177	(10.5pmol/ $\mu$ l)	+ T7 82c
H	HMSAF22	pCDNA	FPO7	11577 (3.2pmol/ $\mu$ l)	+ T7
I	HTSKB09	pCDNA	FPO6	11463 (5.6pmol/ $\mu$ l)	+ T7
J	HTYS02	pCDNA	FPO5	11746 (7.0pmol/ $\mu$ l)	+ T7
K	HTAN08	pDEC	FRI4		+ PGE9/10

PCR Program lab.

Run 10 min on qpt w / 1 to 100



2/15/96

Inoculate for mini Prips

Try to PCR insert with Tag

Take some of PCR Fragment Generated from 2/9 &amp; 2/12/96.

PCR using same primers.  
+ 0.5  $\mu$ l Tag. - Total of 500  $\mu$ l rxns.

PCR.

95°C	1/3 5min	} 25x
95°C	1min	
55°C	1min	
72°C	1.45min	
72°C	7:30min	

Run 5ul on gel w/ 1Kb ladder



- 1 HCGAC58
- 2 HCGAC58
- 3 HSGSAG1
- 4 HSGSAG1
- 5 HNF0390
- 6 HUSAQ05
- 7 HE2PM21
- 8 HEC726
- 9 HMSAF22
- 10 HSKR109
- 11 HTUS002
- 12 HTPAN08

PEG PPT.

Wash pellet 1000 $\times$  of 30% ethanol  
Spin 5min  
Pour off supernatant

5/15/96

Allow pellet to Air Dry  
 Resuspend in 100  $\mu$ l TE  
 Set up Digests

	1	2	3	4	5	6	7	8	9	10	11	12
DNA	25	25	25	25	25	25	25	25	25	25	25	25
10X Buffer	5	5	5	5	5	5	5	5	5	5	5	5
H <sub>2</sub> O	18	19	19	19	18	18	18	18	18	18	18	18
Enz 1	1 Xho	1 Bam	1 Bam	1 Bam	1 Bam	1 BglII	1 Bam	1 Bam	1 Bcl	1 Bcl	1 Bam	1 Bcl
Enz 2	1 Bam				1 Xho	1 Xho	1 Asp	1 Xho	1 Xho	1 Xho	1 Xho	1 Hcl
	50	50	50	50	50	50	50	50	50	50	50	50

Incubate 37°C O/N.

W/ Bcl Digests - incubate at 50°C for 4 hrs before Running on Low P Gel

Run 2  $\mu$ l of PC4 Digests mg/ml / 1 kb ladder

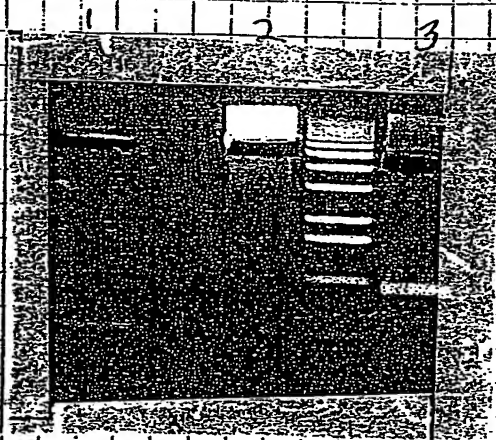


1 pCDNA 3' HA Bam / Xho I  
 2 Asp 718  
 3 Bam #1  
 4 Xba  
 5 Bam / Xba  
 } pC4

Run 1/2 of #1 & 5  
 on Low P Gel  
 with PC1 Bam / Xba  
 and 1 kb ladder

Run at 80V 2 hrs  
 Cut out DNA Fragment  
 Take P. Clunk

2/15/96



1 pCI Bam/Xba

2 pCH Bam/Xba

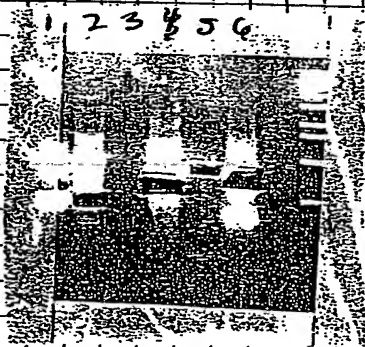
3 pCDNA 3 HA  
Bam/XbaStore -20°C  
O/N.

Sample ID	abs 260.0 nm	abs 280.0 nm		260.0 nm	280.0 nm
				280.0 nm	260.0 nm
1 pCI 5'(1)	0.1281	0.0779	24 mer	1.6454	0.6078
2 MCS rpp1 3'(1)	0.1530	0.1037	21 mer	1.4745	0.6782

0.85 µg/µl 106.8 pmol/µl  
1 µg/µl 145.7 pmol/µl

2/16/96

Run Digests on 0.8% LMP Gel w/  
1 kb ladder  
Run 80V 2hrs  
Cut out gel slices & take picture





2/16/96

Melt Gel slices at 68°C  
Set up ligations

	A	B	C	D	E	F	G	H	I	J	K	L
2 HCLAK58 B	10											
4 HSGS461 B		10										
5 HNF09.90 O/X			10									
6 HNSA005 B/X				10								
7 HSPM21 B/X					10							
8 HSG026 B/X						10						
9 HNSAFU B/X							10					
10 HSEB009 B/X								10				
11 HTY5004 B/X									10			
12 HTPAN28 B/HW										10		
10X Liga Buf.	5	5	5	5	5	5	5	5	5	5	5	5
H <sub>2</sub> O	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5
T4 Ligase	1	1	1	1	1	1	1	1	1	1	1	1
pcDNA 3.1/HAB			0.5	0.5	0.5		0.5	0.5	0.5			
pDIO Barn	0.5											
pBSK Barn		0.5										
pAZ Barn/Asp						0.5						
pQEG N/HW										0.5		
	50	50	50	50	50	50	50	50	50	50	50	50

Incubate at Room Temp 2 hrs.  
Store 4°C  
Company Closed 1pm due to weather.

Baling Manipulations

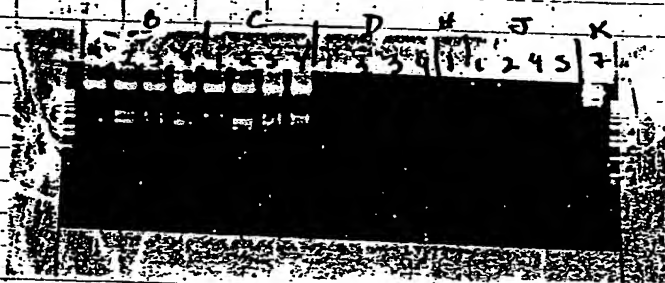
Spin 2ml Culture  
Remove Supernatant  
Resuspend pellet in 700ul STEC +  
Wage  
Heat to 100°C 5min

2/16/96

Spin 15min  
 Transfer 650  $\mu$ l of Supernatant to  
 Add Fresh Tube  
 Vortex 650  $\mu$ l of 13% PEG / 1.6M NaCl

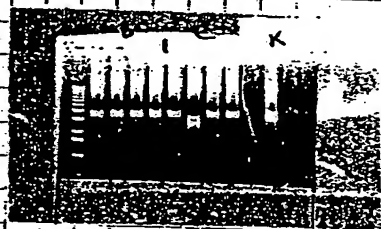
Spin 15min  
 Pour off Supernatant  
 Wash Pellet 1000  $\mu$ l 70% Ethanol  
 Spin 5min  
 Remove Supernatant  
 Allow Pellet to Air Dry 15min  
 Resuspend in 100  $\mu$ l THF

Rem 1  $\mu$ l on gel w / 1 kb ladder



B HCGAG58-PD10  
 C H8SA61-PD10  
 D HNFDF10-PC3HA  
 J H4SAF22-PC3HA  
 K HTPAN88-PD10

Set up digestion B/C - with Bam  
 and K w / Hind III ~~at 37°C~~ 37°C



None Digested

Redo Min 5 on  
 Monday

2/19/96 OFF President's Day

2/19/96

Transform ligations from 2/16/96

Transform PQE & PD10 constructs into  
M15 up4

Transform PAZ, PBSK + pCDNA 3' HA into  
DH5 $\alpha$  cells.

Thaw Chemically Competent cells  
on ice

Aliquot 100  $\mu$ l into Sterile Tubes

Add 10  $\mu$ l of Ligation Reaction

Incubate on ice 1 hr

Heat 42 $^{\circ}$ C for 45 Sec

Quick chill on ice

Add 400  $\mu$ l LB

Incubate 37 $^{\circ}$ C 1 hr

plate onto LB + Antibiotics plates.

M15 up4 cells - LB + Amp/Kan

DH5 $\alpha$  cells - LB + Amp

Incubate 37 $^{\circ}$ C O/N

Inoculate for mini pups - 2/16/96

2/20/96

plates are again contaminated

- just LB + Amp

picked clones anyway

into 96 well Dish

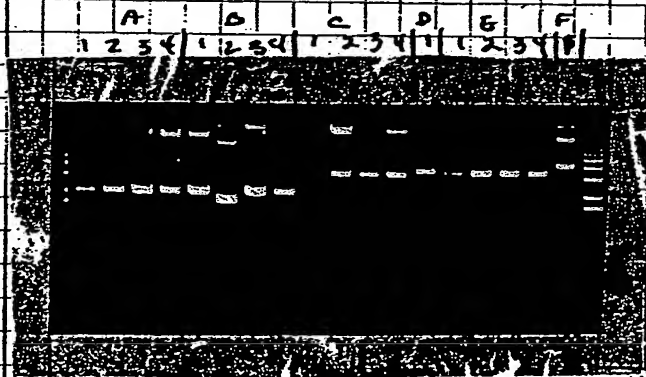
incubate 37 $^{\circ}$ C O/N

mini pups -

Do Promega pups

2/20/96

Spin 2 ml culture 2 min  
 Remove Supernatant  
 Resuspend pellet in 500  $\mu$ l Resuspension Buffer  
 Add 500  $\mu$ l Cell Lysis Buffer  
 Mix by inverting tube several times  
 Add 500  $\mu$ l of Neutralization Solution - mix well  
 Spin 15 min  
 Transfer Supernatant to fresh tube with 500  $\mu$ l of Resin Slurry  
 incubate 5 min at RT  
 Use Cologram with 3CC syringe  
 Attach  
 Apply Resin & Supernatant to Column  
 Vacuum through  
 Wash 2 x 1 ml Wash Buffer  
 Spin Column 1 min  
 Apply 150  $\mu$ l TE - heated to 68°C  
 Let sit 5 min  
 Spin 1 min & collect  
 Run Gel on gel w/ 1 kb ladder



A - HCGAG58 + PD10  
 B - HSGSAG1 + PD10  
 C - HNFAD90 + PC3  
 D - HUSAF22 + PC3  
 E - HT45802 + PC3  
 F - HTPAN08 + PC3

## PCR Cultures

2/21/96

A - HCGACS8 Bam + PD10 Bam  
 C - HNF1W90 Bam/Xho + pCDNA 3'HA  
 D - HUSAQ05 Bgl II/Xho + pCDNA 3'HA  
 E - H7E2pm21 Bam/Xho + pCDNA 3'HA  
 F - H7E8CJ26 Bam/Asp + PAZ  
 G - Hm5AF22 Bcl I/Xho + pCDNA 3'HA  
 H - H7SKBND9 Bcl I/Xho + pCDNA 3'HA  
 I - HT4SB02 Bam/Xho + pCDNA 3'HA  
 J - H7PAN08 BspH I/HII + pDEG0

C, D, E, G, I, J. - pCDNA 3'HA

T7	1	72x
Sp6	2	72
10x dNTP	3.2	144
10x PCR	3.2	230.4
H <sub>2</sub> O	20.4	230.4
Cult	2	1468.8
Tag	0.2	14.4
	30ul	30ul/Tube

E - PAZ		12x
T7 Bsp	0.05	0.6
3 Asp 718	3	36
10x dNTP	3.2	38.4
10x PCR	3.2	38.4
H <sub>2</sub> O	20.4	244.8
Cult	2	
Tag	0.2	2.4
	32	30.2/tube

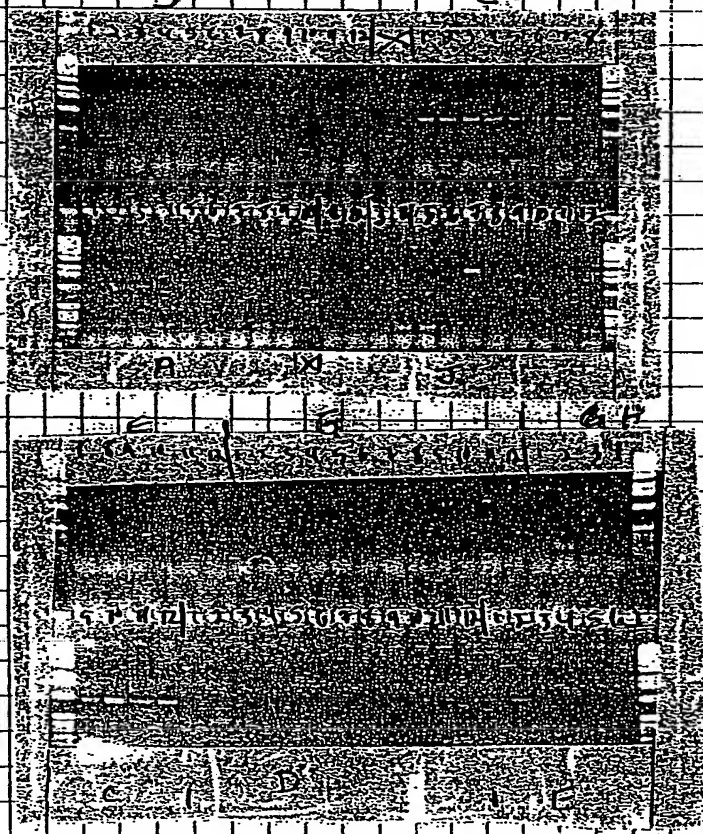
2/21/96

A. J. - PDIO + POE (02)

3: POE	0.2	3.3X
7: POE	1	6.6
10X	3.2	33
10X	3.2	105.6
H2O	20.2	105.6
Cult	2	732.6
Est	0.2	6.6
	30ml	30ml/well

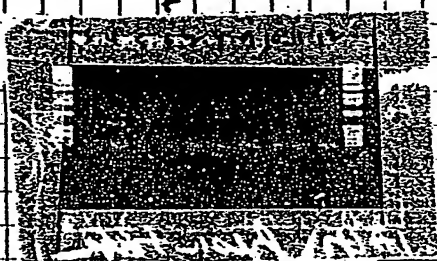
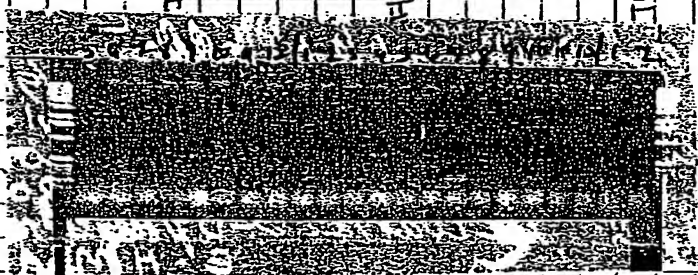
PCR Program (do)

Run 10ul on gel w/ 11kb ladder





2/21/96



- Unincubate some pBSK - HSGSACI Bam.  
into Sm. TB + Amp.

- Unincubate  
HNE DW90 CI-4  
HUSAQ05 DI-DS.  
HEZPM2 E2.

into TB + Amp. for E. coli Mini prep

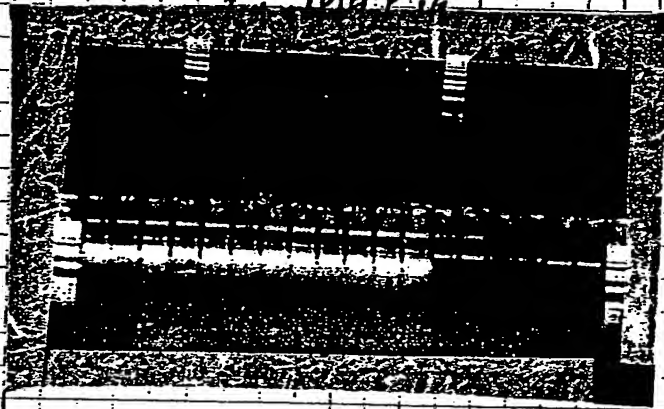
2/22/96

Proteoglycan Mini prep DNA.  
See pg 33-34 for Protocol.

2/24/96

Setup

Run gel on gel with 1 kb ladder



A - HSGSAGI + PBSK  
 B - HNI:DNA  
 C - HUSARCS  
 D - HEZPM21  
 E - H' MSAF22  
 F - HSEBNO9  
 G - H7PAND8

Sett - ca Dyejets

pDNA 3' HA			pBSK		
HIII / Xba			Xba I		
		(22X)			(13X)
DNA	10		DNA	10	
100X IX#2	3	66	100X IX#2	3	39
BSA	0.3	6.6	BSA (100X)	0.3	39
H <sub>2</sub> O	16.3	38.6	H <sub>2</sub> O	22.5	49.5
HIII	0.2	4.4	Xba I	0.2	8.6
Xba I	0.2	4.4		30	36ul / tube
	30	32ul / tube			

PD10 + PDECO  
 Eco RI / HIII

		12.4	Incubate 37°C	
			LPH3	
DNA	10			
100X IX#2	3	36		
BSA	0.3	3.6		
H <sub>2</sub> O	16.3	195.6		
HIII	0.2	3.6		
Eco RI	0.2	3.6		
	30ul	30ul / tube		

2/27/96

Set up Digests

- Eco RI / Xho I

Digest DNA to 250 ng /  $\mu$ l

DNA	8	5x
10x EcoRI	5	25
H <sub>2</sub> O	36	180
Eco RI	0.5	2.5
Xho I	0.5	2.5
	50	40 $\mu$ l / tube

also Digest HCE 3026 1.32  $\mu$ g /  $\mu$ lHCE 5F84 1.57  $\mu$ g /  $\mu$ l

DNA	4
10x EcoRI	5
H <sub>2</sub> O	40
Eco RI	0.5
Xho I	0.5
	50

Incubate 37°C O/N.

Cassie + I packed up Lab #15 on  
3rd floor 9:20. will be  
moving to Lab #5 2nd floor  
9:20. J

2/28/96

Cassie + I spent the whole Day  
moving Boxes & moving into  
New Space!

2/29/96

Set-up PCR of colonies picked  
2/26/96

1. HMSAE22 + GPPAZ T7 + 3' Bof II  
2. HMSAE22 3'Δ + GPPAZ 17 Bacc + 3'Δ A<sub>top</sub>  
3. HCEED20 + GPPAZ 13627 + ~~407~~ T7 Bacc  
4. HCEG495 + pCDNA 3' HA } cho 3' + 5'  
5. HFGAm58 + pCDNA 3' HA  
6. HATCK 87 + pCDNA 3' HA

	0.1	0.6
T7 Bacc	0.1	0.6
3' Bof II	2	12
10x dNTP	3.2	19.2
10x PCR	3.2	19.2
H <sub>2</sub> O	21.2	127.2
Taq	0.3	1.8
Cit. 1x	2	
	32ul	30ul/tube

	0.1	1.2
T7 Bacc	0.1	1.2
3'Δ A <sub>top</sub>	3	36
10x dNTP	3.2	38.4
10x PCR	3.2	38.4
H <sub>2</sub> O	20.2	242.4
Taq	0.3	3.6
Cit. 1x	2	
	30.0	30ul/tube

	0.1	25x
T7	0.1	2.5
3' 13627	0.4	30
10x dNTP	3.2	80
10x PCR	3.2	80
H <sub>2</sub> O	21.8	545
Taq	0.3	7.5
Cit. 1x	2	
	32ul	30ul/tube

	0.02	75x
3' cho	0.02	1.5
5' cho	0.02	1.5
10x dNTP	3.2	270
10x PCR	3.2	270
H <sub>2</sub> O	23.26	174.5
Taq	0.3	22.5
Cit. 1x	2	
	30ul	30ul/tube

PCR Prog	66
95°C	5min
95°C	30sec
55°C	30sec
72°C	1min
72°C	10min
4°C	hold

30x

2/28/96

3/5/96

Count vol.

	SAM	PUS	CH	CPM	2S16%	TIME	EL. TIME	AVG H#
HCE3026	1	296	1	728784.00	0.47	0.25	1.72	60.0
HCE3026	2	297	1	815745.00	0.30	0.20	3.48	61.0
HCE3026	3	298	1	890950.00	0.47	0.20	5.26	65.0

$7.3 \times 10^5$  /ul  
 $8.2 \times 10^5$  /ul  
 $8.7 \times 10^5$  /ul

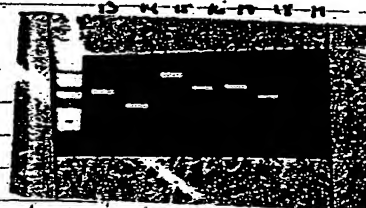
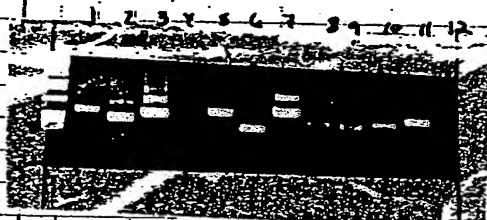
Give Probe + DNA strips to  
Main Poster.

Phenol Chloroform Extract Gel slides  
 from 2/16/96 = Pg 30  
 from 2/29/96 = Pg 62.

Add TE to 500ul  
 Heat 100°C  
 Add 500ul heated phenol 100°C  
 Mix well  
 Spin 10min  
 Transfer Supernatant to fresh tube  
 Add 500ul phenol  
 Mix well  
 Spin 10min  
 Transfer Supernatant to fresh tube  
 Add 800ul SFAA  
 Mix well  
 Spin 10min  
 Transfer Supernatant to fresh  
 tube  
 Add 20ul 3M NaAc. pH 5.3  
 Add 1000ul 100% ethanol  
 Mix well  
 Let sit on ice 10min  
 Spin 15min

3/5/94

Pour off Supernatant  
 Wash pellet 100  $\mu$ l 70% Ethanol  
 Spin 5 min  
 Pour off Supernatant  
 Allow pellet to Air Dry 15 min  
 Resuspend pellets in 4  $\mu$ l TE  
 Run gel w/ 1 kb ladder



- |    |                 |                   |
|----|-----------------|-------------------|
| 1  | HCGAC58         | Bam/Vho           |
| 2  | HCGAC58         | Bam               |
| 3  | HCGAC58 HSGSAC1 | Bam/H1            |
| 4  | HNFDW90         | Bam/Vho           |
| 5  | HUSAQ05         | Bgl II/Vho ~800bp |
| 6  | HUSAQ05         | Bgl II/Vho ~450bp |
| 7  | HE2Pma1         | Bam/Vho           |
| 8  | HE8CJ26         | Bam/Asp           |
| 9  | HmSAT22         | Bcl/Vho           |
| 10 | HSKBN07         | Bcl/Vho           |
| 11 | HTVSB02         | Bam/Vho           |
| 12 | HTPAD08         | BspH/HTD          |
| 13 | HLTB050         | EcoRI/Vho         |
| 14 | HCE3W26         | 0.7kb Eco/Vho     |
| 15 | HCE3W26         | 2.5kb Eco/Vho     |
| 16 | HTPRD07         | Eco/Vho           |
| 17 | HFTD102         | Eco/Vho           |
| 18 | HPRCA09         | Eco/Vho           |
| 19 | HTXem77         | Eco/Vho           |



75

3/6/96

Set up ligations of ones that  
have not worked for the past

	1	2	3	4	5	6	7	8	9	10	11	12
HCEED20 Asp.	4											
HSGSAG1 Bam		4										
HCGAC58 Bam			4									
HUSAQ BglII/Xho				4								
HUSAQ BglII/Xho					4							
HIPAND8 BspHI/Hinf						4						
HCGAC58 Bam/Sma							4					
PBSK Kpn	0.5							0.5				
PBSK Bam		0.5	0.5						0.5			
PCDNA 3'HA Bam/Xho				0.5	0.5		0.5			0.5		
PAGE6 Nco/Hinf						0.5					0.5	
10X Buffer	2	2	2	2	2	2	2	2	2	2	2	2
H <sub>2</sub> O	12.5	12.5	12.5	12.5	12.5	12.5	12.5	16.5	16.5	16.5	16.5	17
T <sub>4</sub> Ligase	1	1	1	1	1	1	1	1	1	1	1	1
	20	20	20	20	20	20	20	20	20	20	20	20

ligate @ at RT o/n

Therapeutic Protein Meeting

12.15 -

Carrice Fischer Presentation  
on TNTs

3/7/96

Gathered Plasmid preps of all  
Constructs with HG project  
code

3/7/96

HTPAN08 - HG03500 - Fas Ligand  
 pBL HG03500 - pBSK  
 pE9 HG03500 - pD10 System  
 AZ HG03500 - PAZ construct  
 PHA HG03500 - pCDNA3 HA Tag

HTPB911 - HG06300 - Vellin  
 pBL HG06300  
 pE9 HG06300  
 pE60 HG06300 - pQE60  
 AZ HG06300

HCDAAS9 - HG09900 - HE2PM21  
 pBL HG09900  
 AZ HG09900

HSKBN09 - HG10900  
 pBL HG10900  
 pE7 HG10900 - pQE7  
 AZ HG10900

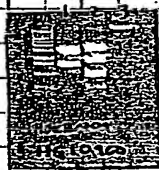
HT4SB02 - HG09700  
 pBL HG09700  
 AZ HG09700  
 PHA HG09700

HMSA002 - HG03700 - HMSAP22  
 pBL HG03700

HNBAA26 - HG09800  
 pBL HG09800

HNFAA64 - HG10000  
 pBL HG10000

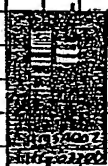
3/7/96



- 1- HSKBN09 Xho/EcoRI
- 2- HSKBN09 + pQE7:  $\beta$ gal/HIS
- 3- HSKBN09 + PAZ - Bam/Xba



- 1- HTUSB02 Xho/EcoRI
- 2- HTUSB02 + pCDNA3'HA Bam/Xba
- 3- HTUSB02 + PAZ Bam/Xba



- 1- HTMSAF22 Xho/EcoRI



- 1- HTMPSA79 - Xho/EcoRI
- 2- HTMPSA79 + pQE60 Bam/BglII

E. coli

Transform *Leguminis* (pg 75)  
from 3/6/96.

for pQE6 constructs use M15 sup<sup>+</sup> cells

for pBSK/pCDNA3'HA constructs use XL-1 Blue cells.

Use Chemically Competent frozen Cells. 3/7/96

- III
- Thaw cells on ice
  - Aliquot 100  $\mu$ l into fresh sterile tube
  - Add 10  $\mu$ l of ligation mix
  - incubate on ice 1 hour
  - heat  $42^{\circ}\text{C}$  for 45 sec
  - Quick chill on ice
  - Add 100  $\mu$ l of LB
  - incubate  $37^{\circ}\text{C}$  1 hour
  - plate 100  $\mu$ l onto plate:
  - PBSK - LB + Amp + IPTG / Xgal
    - pCDNA 3' HA - LB + Amp
    - PQEG - LB + Amp / Kan

Incubate at  $37^{\circ}\text{C}$  O/N

3/8/96

inoculate 200  $\mu$ l of LB + Amp  
with (96 well Dish)

HUSAQ05	+ pCDNA 3' HA Tag	(60)
HCGAC58	+ PBSK	(36)
HCEED20	+ PBSK	(24)
HSGSAG1	+ PBSK	(36)

inoculate 200  $\mu$ l of LB + Amp / Kan  
with (96 well Dish)

HTPAND8	+ PQEG	96
---------	--------	----

Incubate all at  $37^{\circ}\text{C}$  w/ aeration

Set up PCRS

03/8/96

## HUSAQ05. + PCDNA 3 HA

		62x
T7 PC1	0.3	18.6
14147	1	62
10x dNTP	3.2	198.4
10x PCR	3.2	198.4
H <sub>2</sub> O	22.2	1386
Taq	0.3	18.6
Cult	2	
	32ul	32ul/tube

## HCGAC58 + rcdNA 3 HA

		38x
T7	0.3	11.4
PC 3'	0.1	3.8
10x dNTP	3.2	121.6
10x PCR	3.2	121.6
H <sub>2</sub> O	22.9	870.2
Taq	0.3	11.4
Cult	2	
	32ul	32ul/tube

## HTRAN08 + PQE60.

		100x
T7 PQE	0.02	2
3' PQE	0.25	25
10x dNTP	3.2	320
10x PCR	3.2	320
H <sub>2</sub> O	23.13	2313
Taq	0.2	20
Cult.	2	
	32ul	32ul/tube

## HCEED20 + PBSK

		26x
M13R/E	0.1	2.6
10x dNTP	3.2	83.2
10x PCR	3.2	83.2
H <sub>2</sub> O	23.3	605.8
Taq	0.2	5.2
Cult.	2	
	32ul	32ul/tube

## HSQSA61 + PBSK

		38x
M13R	0.1	13.8
4810 (topred)	1	38
10x dNTP	3.2	121.6
10x PCR	3.2	121.6
H <sub>2</sub> O	22.3	849.7
Taq	0.2	7.6
Cult.	2	
	32ul	32ul/tube

## PCR

95°C	5min
95°C	30sec
55°C	30sec
72°C	1min
72°C	7 min
4°C	hold

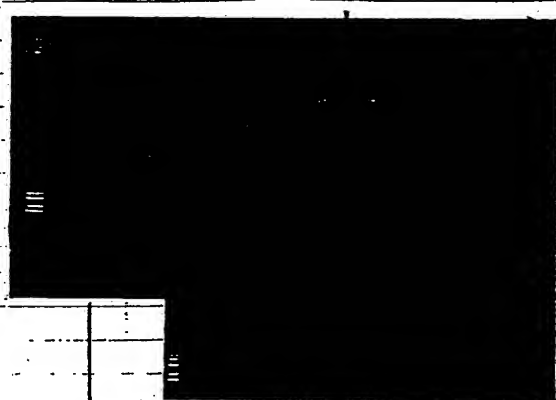
Run 10 Lys PCR Rxn w/ 1E6 ladder 3/8/96  
 HTPANOS + PQEG



HTPANOS + PQEG



HUSAQOS + pCONA 3' HA





3/15/96

Inoculate TB5 Amp  
for mini preps on Monday  
leave at RT till Monday

Diagn. mini prep

HE2RM21 + 3 HA  
HMSAF22 + 3 HA  
HSKBN09 + 3 HA  
HTUSB02 + 3 HA  
HTPAN08 + PDEG

PAT - + Allow to bind till  
Monday

Set up ligations

	1	2	3	4	5	6	7
HTAF20 BINCO	5						
HTHC008 BamHsp		5					
HCEB020 Asp			5				
PDEG0 Neo (Bam)	1			1			
PCF BamHsp		1			1		
PBS1C Asp			1			1	
10X Buffer	2	2	2	2	2	2	2
T4 Ligase	1	1	1	1	1	1	1
H2O	11	11	11	16	16	16	17

Inoculate at RT over weekend

Split TC cells

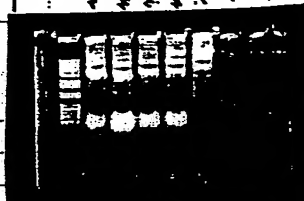
3/18/96

Diagen Max Cont.

Resuspend PGE construct 400ul TE

Resuspend 3'HA constructs in 200ul TE  
Run gel w/ 1kb ladder

3'HA PGE

1 ul of RNA in 3'HA  
constructs

qs to 500ul

Add 500ul PEG/NaCl  
mix well

Spin 15min

Wash pellet 1000ul  
70% EtOH

Spin 5min

Remove supernatant

Allow pellet to air dry 15min

Resuspend in 100ul TE

Read OD 260 - 280 1.200 Dilution

Sample ID	abs 260.0 nm	abs 280.0 nm	bkg abs 320.0 nm	260.0 nm 280.0 nm	260.0 nm 280.0 nm
1 HE2PM21 + 3'HA	0.1208	0.0775	0.0005	1.5594	0.6413
2 HMSAF22 + 3'HA	0.0934	0.0806	0.0036	1.5765	0.6343
3 HSKBN01 + 3'HA	0.0708	0.0457	0.0044	1.6017	0.6243
4 HT45B02 + 3'HA	0.1050	0.0701	0.0063	1.5474	0.6463
5 HT45B03 + PGE	0.1173	0.0771	0.0073	1.5751	0.6349

Cloned Cell Culture  
Set up DigestionHT45B02 2 Eco/NotI  
HE2PM21 3HSKBN01 2 Kpn/Bam  
HMSAF22 3

HT45B03 + PGE 3 Eco/HindIII

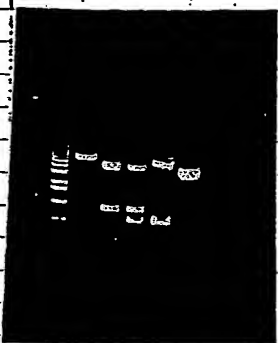
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DNA	2
10x	3
BSA	0.3
Bam	0.2
Xho	0.2
H <sub>2</sub> O	24.3
	30 $\mu$ l

DNA	2
10x	3
BSA	0.3
Kpn	0.2
Xho	0.2
H <sub>2</sub> O	24.3
	30 $\mu$ l

DNA	2
10x	3
EcoRI	0.2
HindIII	0.2
H <sub>2</sub> O	24.6
	30 $\mu$ l

Incubate 37°C 4hrs  
 Run 10  $\mu$ l on gel with 1 kb ladder



HE2PM2.1 is linearizing  
 HMSA F22 - looks correct w/  
 RNA contamination  
 HSKBN09 - internal seq?   
 HT45B02 - incomplete  
 digestion

HTPAN08 - incomplete  
 digestion

Digest for longer +  
 Re Run.

Inoculate TB + Amp or Amp Kan  
 with cultures

HSYSA61 Bam + PBSK = A1, A2, B3, B4, D5, D6

HCGAC58 Bam + PBSK = E10, E9, F9, F11, F12  
 G1, G2, H3, H4

HTPAN08 (Nco/Hind) + PQE6 = A4, C4, D2

HELBS34 + PCY = D10

HELBS34 + PBSK = G5, G6, G8

HCEED20 + GPPA2 = A1, A2, B3, B4, C5, C6, D9, D8

Incubate 37°C O/N

3/18/96

Transform Ligations into  
Chemically Competent Cells  
XL-1 Cells

Chaw cells on ice  
Aliquot 100  $\mu$ l of cells into fresh tubes  
Add 10  $\mu$ l of ligations  
Incubate ~~on ice~~ on ice 1 hr  
Heat  $42^{\circ}\text{C}$  1 min  
Chill on ice  
Add 2400  $\mu$ l L.B.  
Incubate  $37^{\circ}\text{C}$  1 hr.  
Plate onto 2 LB Amp. plates for  
pCH + LB Amp. Beta gal for  
pBSK.  
Incubate  $37^{\circ}\text{C}$  O/N.  
Freeze Cole Cells.

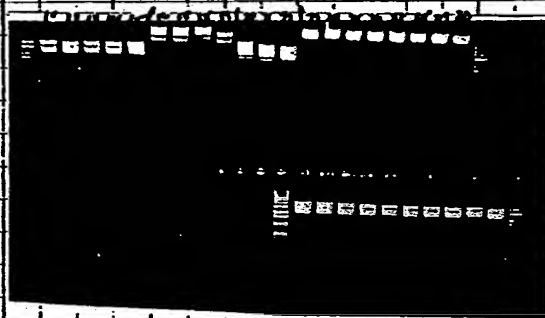
3/19/96

Alkaline Lipis Mem Prep

Spin 2ml culture 2 min.  
Remove Supernatant  
Resuspend pellet 300  $\mu$ l Resuspension  
Buffer  
Add 600  $\mu$ l Cell Lysis Buffer  
Add 300  $\mu$ l Neutralization Buffer  
Mix well  
Let sit on ice 15 min  
Spin 15 min  
Transfer Supernatant to fresh tube  
Add equal Volume 10% PEG  
1.6M NaCl.  
Mix well  
Spin 15 min  
Remove Supernatant

3/19/94

wash pellet 100ul 70% Etanol  
Spin 5min  
Remove supernatant  
allow pellet to air dry 15min  
Resuspend pellets in 150ul TE  
Run 2ul on gel with  
11k ladder

1-6 HSGSAG1 +  
PBK7-15 HCGAC58 +  
PBK16-18 HTPAN08 +  
PDE619-22 HREHEL05 + Ry  
+ PBK

23-30 HCEED20 + GPPA2

Mini PCR's look good.  
Set up Digestions

HSGSAG1 + PBK  
HCGAC58 + PBK  
PBK

HTPAN08 + PDE6  
PDE6

		10x
DNA	10	—
10x Bsm	3	48
BSA	0.3	4.8
Bsm	0.2	3.2
H <sub>2</sub> O	16.5	26.4
	30ul	20ul/tube

		4x
DNA	10	—
10x	3.0	1.2
BSA	0.3	1.2
Nco	0.2	0.8
Hind III	0.2	0.8
H <sub>2</sub> O	16.3	6.52
	30.1	20ul/tube

3/19/96

Set up Digests of

1 HMSAF22 + G.P.PA2 (BglII/Asp)

2 HMSAF22 3.2 + G.P.PA2 (BglII/Asp)

	①	②
DNA	22	10
IOX	5	5
H <sub>2</sub> O	221	23
BglII	1	1
Asp	1	1
	50ul	50ul

Incubate 37°C  
4 hrsRem. Load on Digest on gel with  
1.1 kb ladderLooks like correct  
digestion

Run on LMP Tomorrow

Make Probes: HTPAN08, HTXEM7, HSH6163  
HFDJ562

	SAM	POS	CH	CPM	2SIG%	TIME
HTPAN08	1	15	1	550513.31	0.49	0.30
HFDJ562	2	16	1	945610.00	0.46	0.20
HTXEM7	3	17	1	761804.00	0.46	0.25
HSH6163	4	18	1	813240.00	0.50	0.20

3/20/96

HTD Lib

Re Run Digests from 3/18 (pg 104)



5/20/96

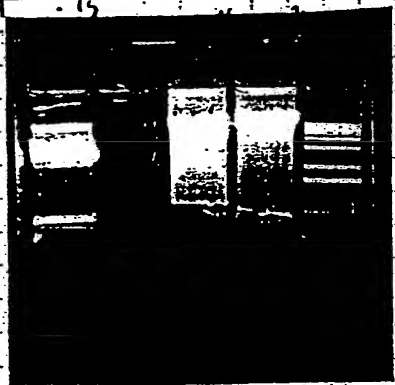
1. HE2PM21 - Bam/Vno
2. HMSAF22 - Kpn/Xho
3. HSKBN01 - Kpn/Xho
4. HT45B02 - Bam/Vno
5. HTPAN08 - Nco/Htt

PC DNA - has 2 Kpn  
 Scaits to give ~886 bp  
 fragment

HT45B02 looks correct  
 HSKBN01 looks correct

Need more Digests of HE2PM21 HTPAN08  
 HMSAF22  
 HT45B02

Run HMSAF22 on LMP Gel with  
 1 kb ladder.  
 loaded samples after Carrie started Run.  
 Cut out fragment  
 Take picture



Gel slice ready  
 for clean up  
 or ligation

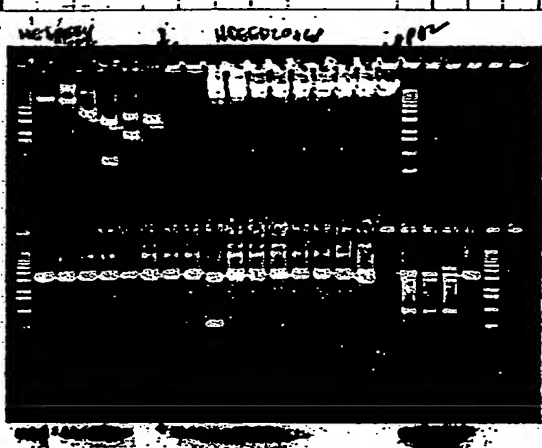
45H8183

this  
umCLF

24)

3/20/96

Run Digests of Mini preps.



Run Digests  
 look like they  
 are digested, but  
 did not "pop out"  
 fragment  
 except HCEED20 #3.  
 looks correct.

HCEED20 + PDE  
 None, look correct.  
 No insert?

HCEED32.  
 Should give ~400bp  
 fragment that was  
 digested w/ 600bp  
 Ask J. J. J.

HCEED20 - Hard to tell  
 Run on 0.8% or lower gel

Wash HTO filters.  
 0.2xSSC  
 0.1% SDS  
 65°C, 1 hr. 3X on film

- Lab meeting

01

5

60

60

65

10

1/2 hr

correct  
 in  
 fig

3/22/96

CORE NORTHERN BLOT SUBMISSION FORM

Gene Name: *HTF*

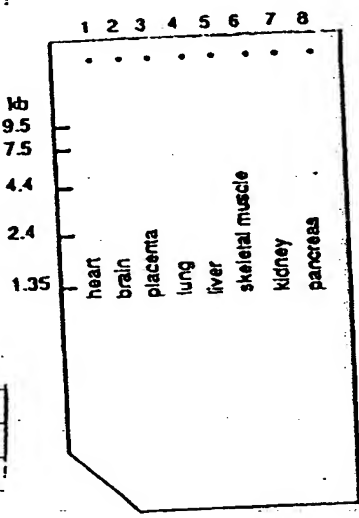
(ug):

$5 \times 10^5$

3 X

been obser

with the above information, filled out the probe hybridization membrane with a sample of DNA, diluted over a 5 log range (1 ng, 100 pg, 10 pg, 0.1 pg). Boil the DNA solutions for 5'. Spot the DNA on the membrane, using no more than 5 ul per spot. Alternately, denature the samples in Southern denaturation solution. In either case, crosslink the strip.



gram of your Northern ba  
sity of your band. We w

FEA

$5^{H5}$ ,  $I_n(5^{H5})$

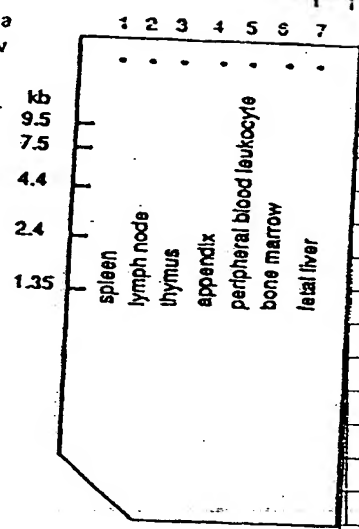
ol

$30.3 \times 10^5$

Ext. SHOWS NOTHING.

17-50, 15, 42

2, 2 x 50, 12 50, 30' EXH, 65



TNT Results:

4/2/96

TNT RESULTS 4/2/96		
INVESTIGATOR	SAMPLE NAME	EXPECTED SIZE (KDa)
REINHARD EBER	HOECH07	51.8
YAJUN CHEN	HPMDH16 FRAME 1	48
YAJUN CHEN	HPMDH16 FRAME 2	48
YAJUN CHEN	HPMDH16 FRAME 3	48
ANN KIM	HTPAN08 + PCDNA	30
ANN KIM	HTPAN08 + 3HA	30
ANN KIM	HT4SB02 + PCDNA	24
ANN KIM	HT4SB02 + 3HA	24
ANN KIM	HSBAW14 + GPPA2	24
CHARLES FLORENCE	HBMSE03	10
T7 POSITIVE CONTROL	DNAse 02-105	33
T7 NEGATIVE CONTROL	NO DNA	NONE
T3 POSITIVE CONTROL	HCAC183	33
T3 NEGATIVE CONTROL	NO DNA	NONE
REACTIONS PERFORMED BY: CARRIE FISCHER		

OBSERVED SIZE (KDa)

FAINT BANDS AT 23,30,33

48 (?) also a background band at 48 but band in your sample is more intense

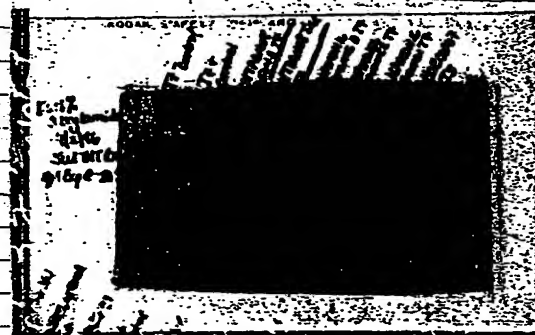
48 (?) also a background band at 48 but band in your sample is more intense

48 (?) also a background band at 48 but band in your sample is more intense

NO PRODUCT OBSERVED

NO PRODUCT OBSERVED

OFF GEL - WILL REPEAT SAMPLE

Made Probi for  
Nir-trivias.HTPAN08  
HTACB012  
HTTB050  
HTTB053

SAM	POS	CH	CPM	2SIG%	TIME
1	296	1	545253.31	0.49	0.30
2	297	1	930665.00	0.49	0.20
3	298	1	883680.00	0.48	0.20

# CORE NORTHERN BLOT SUBMISSION FORM

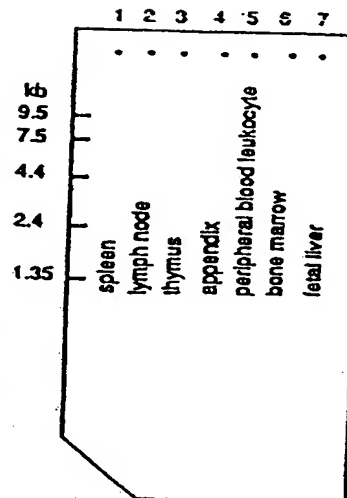
149

4/14/96

Gene Name: Fos Ligand  
 Clone Name: 1861-HIRANO8  
 cDNA size (in kb): [REDACTED]  
 Specific Activity: [REDACTED]  
 (MINIMUM ACTIVITY: [REDACTED] in [REDACTED] pg)  
 Total counts: [REDACTED]  
 Libraries in which: [REDACTED]  
 Other: [REDACTED]

You must give us this form with the above information and a control strip of nylon hybridization membrane. DNA used to make the probe diluted 1:10 (log 1 pg, 0.1 pg). Boil the DNA dilutions for 5 min. Spot using no more than 5 ul per spot. Alternatively, use Southern denaturation solution. In either case, c

You will receive the autoradiogram of your Northern blot 3 to 4 days, depending on intensity of your band. We will mark the film with the sizes of the marker ladder.



## QC information

Name of hybridizer: Mark Porter

Date hybridized: 4-3-96

Blots hybridized: 1, #1

Hybridization Solution: Hybrisol

Counts/ml hyb. buffer added: 32.7 x 10<sup>5</sup>

Exposure time: 1-DAY

Wash conditions: .2555c/.270 SDS

1x, 15', 42°C

2x, 20', 65°C

PPT w/ Ethanol 3 M Na Acetate  
pin labeled  
Red OD 260/280

Sample ID	abs 260.0 nm	abs 280.0 nm	bkg abs 320.0 nm	abs 260.0 nm	abs 280.0 nm
1 HIRANO8	0.1731	0.1134	-0.0008	1.5120	1.5240
2 HIRANO8	0.1488	0.0968	-0.0026	1.5240	1.5240

4/15/96

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